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### NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

02/13/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, 1940 DUKE STREET ALEXANDRIA, VA 22314

**EXAMINER** TAN, VIBOL

ART UNIT

PAPER NUMBER

2819

DATE MAILED: 02/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883.959	06/20/2001	Hidemasa Zama	210067US-2	2668

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT, LOGIC OPERATION CIRCUIT, AND FLIP FLOP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/13/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 22850 02/13/2004 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile 1940 DUKE STREET transmitted to the USPTO, on the date indicated below. ALEXANDRIA, VA 22314 (Depositor's name) (Signature) (Date ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR Hidemasa Zama 210067US-2 09/883 959 06/20/2001 TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT, LOGIC OPERATION CIRCUIT, AND FLIP FLOP TOTAL FEE(S) DUE DATE DUE APPLN. TYPE SMALL ENTITY ISSUE FEE **PUBLICATION FEE** 05/13/2004 nonprovisional NO \$1330 \$1630 **EXAMINER** ART UNIT **CLASS-SUBCLASS** 2819 326-098000 TAN, VIBOL 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single  $\ensuremath{\mathbb{Q}}$  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) ☐ individual ☐ corporation or other private group entity government Please check the appropriate assignee category or categories (will not be printed on the patent); 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_\_(enclose an extra copy of this form). ☐ Advance Order - # of Copies Deposit Account Number Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or oth interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is application. Confidentially is governed by 3 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450

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1940 DUKE STREET ALEXANDRIA, VA 22314			2819	
	•		DATE MAILED: 02/13/200	)4

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

		IXV.
Application No.	Applicant(s)	
09/883,959	ZAMA ET AL.	
Examiner	Art Unit	
Vibol Tan	2819	
(OR REMAINS) CLOSED i or other appropriate comm	n this application. If not includ- unication will be mailed in due	ed course. <b>THIS</b>
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been received.  been received in Application cuments have been received of this communication to file ENT of this application.  itted. Note the attached EX as reason(s) why the oath of the submitted. on's Patent Drawing Revie as Amendment / Comment of the header according to 37 Cites of BIOLOGICAL MAT	on No  ed in this national stage applicated in this national stage applicated in this national stage applicated are reply complying with the reconstruction and the declaration is deficient.  W ( PTO-948) attached in the Office action of the drawings in the front (not the FR 1.121(d).	quirements IOTICE OF
6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allo	
	Examiner  Vibol Tan  ars on the cover sheet w. (OR REMAINS) CLOSED is or other appropriate commoders. This application is and MPEP 1308.  der 35 U.S.C. § 119(a)-(d)  been received. been received in Application to file cuments have been received.  been received in Application.  atted. Note the attached EX as reason(s) why the oath of the submitted.  and the submitted of the submitted of the submitted.  and the submitted of the submitted of the submitted of the submitted.  been received in Application.  attending to the submitted of the submitted of the submitted of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the submitted of the header according to 37 Closes of the header according to 37 Closes of the submitted of the header according to 37 Closes of the hea	D9/883,959  Examiner  Vibol Tan  2819  ars on the cover sheet with the correspondence addr (OR REMAINS) CLOSED in this application. If not includ or other appropriate communication will be mailed in due GHTS. This application is subject to withdrawal from issuand MPEP 1308.  der 35 U.S.C. § 119(a)-(d) or (f).  been received. been received in Application No  currents have been received in this national stage application this communication to file a reply complying with the resent of this application.  determinent of the attached EXAMINER'S AMENDMENT or New Teason(s) why the oath or declaration is deficient. The series of the submitted.  a Amendment / Comment or in the Office action of the header according to 37 CFR 1.121(d).  Sit of BIOLOGICAL MATERIAL must be submitted. If the DEPOSIT OF BIOLOGICAL MATERIAL.  5. Notice of Informal Patent Application (PTG-6.) Interview Summary (PTO-413), Paper No./Mail Date

Application/Control Number: 09/883,959

Art Unit: 2819

## Allowable Subject Matter

- 1. The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims, the cited prior arts fail to teach wherein said two or more gate circuits controlled by the plurality of first transistors are provided on a critical path, as claimed in amended claims 1 and 15; the cited prior arts also fail to teach a third transistor is connected between said first reference voltage line and an output terminal of said gate circuit and has a threshold voltage higher than that of each of said first transistors, as recited in claim 5; and the cited prior arts also fail to teach a third transistor is connected between a second reference voltage line and said second virtual voltage line and has a threshold voltage higher than that of each of said first transistors, as recited in claims 8, 11, and 16.
- 2. Claims 1, 5-13, and 15-17 are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/883,959

Art Unit: 2819

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vibol Tan

Primary Examiner, AU 2819